

SPG-India at EAGE Conference at London-2013

EAGE's 75th Conference & Exhibition incorporating SPE EUROPEC 2013 (London'13) with theme "Changing Frontiers" was organized at London during 10-13 June, 2013. SPG participated in the event as associated society member and had one booth to showcase its activities. Dr. N. P. Singh from Dehradun and Mr Lavendra Kumar from Mumbai Chapters manned the booth. Following is brief summary of conference and activities of SPG delegates.

Location:

London'13 was organized at ExCeL (Exhibition Centre London) which is situated in the eastern part of London near London City airport and Royal Victoria Dock. Last Year, many sports events of London-2012 Olympics were also held in the ExCeL, London.



Eastern Entrance of ExCeL

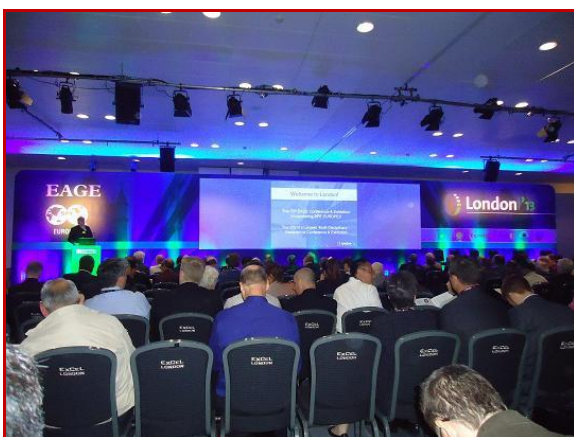


Booth area for Associated Societies

Opening and Awards Ceremony:

The conference was inaugurated by Prince Andrew, Duke of York and coordinated by conference Chairman Mr. Mike Daly, BP. Other speakers on the occasion were: Mr. Len Srnka, EAGE President; Mr. Egbert Imomoh, SPE President; Mr. Lord Oxburg, Eminent Geologist and Geophysicist; Mr. Ayman Asfari, Petrofac and Mr. Andrew Gould, BG Group. Speakers were asked questions/their point of view by Mr. Mike Daly to make the programme more live, interactive and vibrant. The programme was followed by Award Ceremony. Awards were given for best papers oral/poster/First break/Geophysical Prospecting etc of the previous year (i.e.2012). The customary Icebreaker reception was held in the evening in the exhibition area.

The event was attended by approximately 6000 participants in various categories viz delegates, Exhibitors, workshops and short courses participants, spouse members and students. The inaugural function was attended by over a thousand participants.



Opening Ceremony



Award Winners in Awards Ceremony

Exhibition:

The exhibition was jointly organized by EAGE and SPE and attended by more than 350 exhibitors representing E&P companies (including National Oil Companies), Service providers, IT/Engineering Companies, Geophysical/Production equipment Manufacturing companies, Professional Societies, Universities & Institutes. Exhibition was quite impressive with wide spectrum. M/s Sercel launched a new product namely solid multi-sensor streamer (Sentinel-MS) for broad band marine data acquisition.



Icebreaker Reception



Multi-Sensor Streamer by CGG

The response to the SPG stall was quite encouraging. SPG showcased its activities and details of forthcoming biennial International Exposition & Conference (Kochi-2013) through various posters. The pamphlets containing information of “call for papers”, Invitation by President, SPG for Kochi-2013 and the photos depicting the highlights of previous biennial conference Hyderabad-2012 were distributed by the SPG delegates at the main Exhibition itself to offset the very low gathering at area marked for the societies. Mr. Len Srnka, EAGE President, EAGE President elect Mrs. Gladys Gonzalez, Mr. Gerard Wieggerink, Regional Manager Asia Pacific, EAGE and Mr. Marcel van Loon, Manager Publications & Communications, EAGE visited SPG booth in the afternoon on 12th June, 2013. Activities of SPG till date and forthcoming conference Kochi-2013 to be held during 23-25 November, 2013 were apprised to the team in details. The team accepted the invitation from President,

SPG for attending Kochi-2013 and assured increased cooperation between the two societies. The team extended the facility of free downloading of the scientific papers presented during 75th EAGE conference – London'13 to SPG India members.



EAGE Team (a) and Mr. Len Srnka, EAGE President near SPG Booth



Mr. P Sen with SPG delegate Mr. Lavendra Kumar and Prof. Satish Singh with SPG delegate Dr. NPSingh at SPG Booth



Md. Rehman & AK Sarkar with Dr. NP Singh and an Indian PhD Student with Mr. Lavendra Kumar at SPG Booth

Technical Sessions:

More than 1160 papers were presented in the conference out of which more than 700 papers were presented in more than 90 oral sessions on 11th, 12th and 13th June from 08.30 hrs to 17.10 hrs. Twenty five minutes were allotted for each paper for presentation including discussion/question-answers.



Technical Sessions in progress and Card exclusively for SPG India

Executive Session: on “Global Gas Challenge”

Speakers:

- Mr. Matthias Bichsel, Projects & Technology Director, Shell
- Mr. Francis Egan, CEO, Cuadrilla
- Mr. Ibraheem M. Assa'adan, Executive Director, Exploration, Saudi Aramco
- Mr. Dieter Helm, Professor, University of Oxford.

Posters Sessions:

Around 360 papers were presented in 48 poster sessions on 11-13th June. Total Poster area was divided into eight smaller areas called Poster Box. Papers pertaining to particular topics were displayed in a Poster Box for half day (08.30 hrs to 12.10 hrs. and 13.30 hrs. to 17.10 hrs). Similar to oral presentations, each poster presenter was given 25 minutes for presenting his work with the help of his poster. Sessions were chaired by two experts on the topic.

More than 95 papers were also presented by students in 12 poster sessions for students on 11-13th June.

Workshops and Short Courses:

Sixteen workshops (of one day duration) and seven short courses (one / two days) were scheduled on 9th, 10th and 14th June as Pre/post conference. The topics and conveners of the various workshops are given below.

- **Workshop 01: Robust FWI: From the Arcane to Mundane**
- **Workshop 02: Gas Hydrates- From Geohazard to Resource**
- **Workshop 03: Frontiers of Shale Gas Extraction and Microseismic Monitoring**
- **Workshop 04: Impact of Seismic Acquisition on Aquatic Life- Can Marine Acquisition Survive the Next Decade**
- **Workshop 05: Conditioning Reservoir Models to Dynamic Data**
- **Workshop 06: Wave Equation Migration Velocity Analysis-**
- **Workshop 07: The near Surface- A Source of Information for Petroleum Exploration**
- **Workshop 08: Frontiers in Carbonate Reservoir Characterization, Simulations and Geomechanics**
- **Workshop 09: Land Broadband Technology**
- **Workshop 10: HPHT Field Lifecycle**
- **Workshop 11: Interpreting the imperfect**
- **Workshop12: 4D Seismic Surveillance for EOR and IOR: status and Application**
- **Workshop 13: Extracting Sedimentation Sequence and Pattern from 3D Seismic**
- **Workshop 14: 21st Century Operations in Geology-The Frontiers of Pore Pressure Prediction**
- **Workshop 15: Decision Driven Uncertainty Modeling**
- **Workshop 16: Micro Seismicity- What Now? What Next**

Seven short courses were also conducted as pre/post conference on 9th, 10th and 14th June. The name of the courses and Instructors are given below:

- **Short Course 1: Seismic Geomechanics: How to Build and Calibrate Geomechanical Models using 3D and 4D Seismic Data**
- **Short Course 2: Seismic Reservoir Characterization: An Earth Modeling Perspective.**
- **Short Course 3: Advanced Marine Seismic Acquisition Techniques**
- **Short Course 4: Fundamentals of Reservoir Description and Modeling with Geostatistics (SPE Training Course)**
- **Short Course 5: Shale Oil and Tight Oil Fundamentals (SPE Training Course)**
- **Short Course6: Seismic Fracture Characterization: Concepts and Practical Application**
- **Short Course7: Applied AVO**

Social Programmes:

- **Icebreaker Reception**- Traditional opening ceremony of the exhibition.
- **Conference Evening**- The conference evening was held in Natural History Museum on 12th June.
- **Family members' programme**- For all registered family members, guided tours were organized for London city visit.
- **Sponsored Dinners**- M/s Sercel organized a dinner at Cutty Sark on 12th June for its customers.



Sercel Customers Evening organized in The *Cutty Sark* , a British clipper ship.



Conference Dinner was organized at Natural History Museum

Students Programme:

- **Field trip**- A Full field trip day
- **Recruitment opportunities**- Many companies provided this opportunity for students.
- **Student short courses and workshops**- Specialized short courses and workshop for students to gain specific practical or technical knowledge.
- **Geo-Quiz**- Most popular students activity
- **Trial interviews**- Trial interview and feedback session.

Others Activities:

Other attractions during London'13 were:

- **EAGE/EFG Photo Contest-** Display of photos and casting of vote online.
- **EAGE Forum-** A debate on “Exploration to 2050”. Open to all full conference delegates.
- **Senior Executive Managers Lunch** – by invitation only
- **Professional Women in Geoscience and Engineering-** to bring women geoscientists and engineers together.
- **Chairmen’s lunch-** by invitation only
- **Support a Student-** Paying a student membership fee for only 25 to support a student.
- **Lost and Found-** Help for any lost and found
- **Cloak Room-**
- **EAGE Business Meeting-**Opportunity to EAGE members to meet the EAGE Board.
- **Coffee Plazas-**
- **Internet Café-**
- **Free Wi-fi –**
- **London’13 App-**
- **Job Centre-**
- **All Religion Prayer Room**

Vadodara Chapter of SPG organized a Talk on 'Gas Hydrate' by Mr. A V Sathe.

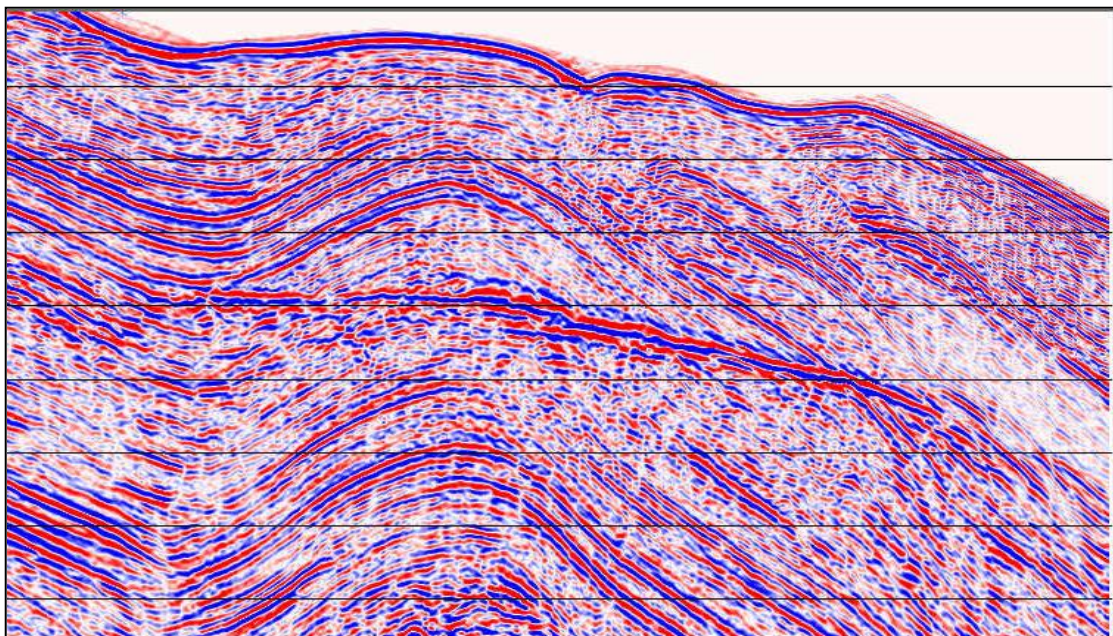
A very distinguished Geoscientist of ONGC and expert on gas hydrate, it was a rare delight for the members of SPG Vadodara chapter to have Mr A.V. Sathe speaking on the subject on 18.06.2013.



Mr A V Sathe being welcomed by Mr S K Das, Mr U S D Pandey & Mr Tarun Shah

He began with the definition and the mechanism involved in the accumulation of gas in the unconventional reservoir. Gas Hydrate is an ice-like crystalline solid formed from a mixture of water and natural gas, usually methane. It occurs in the pore spaces of sediments and may form cements, nodes or layers. Methane trapped in marine sediments as a hydrate represents an immense hydrocarbon potential that can be considered a dominant factor in estimating and harnessing unconventional energy resources.

With favorable temperature and pressure conditions, gas hydrates start forming right from the seafloor down in the shallow sediments, to a certain depth until the Pressure & Temperature conditions allow Gas hydrates to be stable. In Indian offshore gas hydrates mainly occur beyond a bathymetry of 900m. Study of marine seismic data of Indian offshore areas revealed that KG offshore and Andaman areas on east coast of India as very prospective area for Gas hydrate exploration. On seismic sections, gas hydrates seen as the seismic events mostly following sea bottom and cutting across the subsurface reflectors are identified as Bottom Simulating Reflector (BSR).



A seismic section from Andaman offshore showing BSR

He also dealt with the initiatives and research activities taking place world over and the technologies available for the exploitation of gas hydrates and suggested that mining may be more suitable for Indian conditions.

With changing gas pricing policy, development of technology for extraction Gas hydrate may be considered a future energy source not because the global volume of hydrate-bound gas is large, but because some individual gas hydrate accumulations may contain significant and concentrated resources that may be profitably recovered in the future, he observed.



A view of engrossed audience

Dr M C Kandpal putting a query

Mr A V Sathe with SPG-team

Mr S.K.Das appreciated his efforts and thanked for sparing time to deliver this valuable talk. Incidentally Mr A.V.Sathe , President , SPG Vadodara Chapter is relieved from WON Basin to join Kolkata and to take over subsequently as Basin Manager , MBA Basin.

SPG/APG members thanked for his efforts for SPG Vadodara Chapter and wished him a very successful time in new role.